



HEBEI HUAHENG BIOLOGICAL TECHNOLOGY Co., Ltd

河北华恒生物科技有限公司

No.777 Xinghua South Street, Jizhou District, Hengshui City, China

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Tel: +86-318-8628255

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## Material Safety Data Sheet

### L-Lysine MSDS

#### Chemical Product and Company Identification

**Product Name:** L-Lysine

**Chemical Formula:** C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>

**Contact Information:** HeBei HuaHeng Biological Technology Co., Ltd.

**Address:** #1.No.777xinghua South Street,jizhou District Hengshui City.Hebei Province

**Tel:** +86-318-8628255

**Fax:** +86-318-8628286

**Name:** L-Lysine

**CAS:** 56-87-1

#### Section 1 - Chemical Product

**MSDS Name:** L-Lysine

**Synonym:**

#### Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

| CAS#    | Chemical Name | content | EINECS#   |
|---------|---------------|---------|-----------|
| 56-87-1 | L-Lysine      |         | 200-294-2 |

**Hazard Symbols:** None Listed.

**Risk Phrases:** None Listed.

#### Section 3 - HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Not available.

**Potential Health Effects**

**Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:**

May cause irritation of the digestive tract. May be harmful if swallowed.

**Inhalation:**

May cause respiratory tract irritation. May be harmful if inhaled.

**Chronic:**



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Not available.

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#### 🔧 Section 4 – FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately.

Notes to Physician:

Treat symptomatically and supportively.

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#### 🔧 Section 5 – FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

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#### 🔧 Section 6 – ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

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#### 🔧 Section 7 – HANDLING and STORAGE

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

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## ➤ Section 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 56-87-1: Russia: 5 mg/m<sup>3</sup> TWA Personal Protective Equipment Eyes:

Not available.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

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## ➤ Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: white to yellow

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 215 deg C (dec)

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density:

Molecular Formula: C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 146.1102

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## ➤ Section 10 – STABILITY AND REACTIVITY

Chemical Stability:

Stable.



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Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

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#### 🔗 Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 56-87-1: OL5540000 LD50/LC50:

Not available.

Carcinogenicity:

L-Lysine - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

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#### 🔗 Section 12 - ECOLOGICAL INFORMATION

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#### 🔗 Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

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#### 🔗 Section 14 - TRANSPORT INFORMATION

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

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#### 🔗 Section 15 - REGULATORY INFORMATION



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European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 56-87-1: 0

Canada

CAS# 56-87-1 is listed on Canada's DSL List.

CAS# 56-87-1 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 56-87-1 is listed on the TSCA inventory.